

10/511296 *FF3*
DT04 Rec'd PCT/PTO 15 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DHL EXPRESS 552 6567 620

Applicant: Dirk Petring
Serial No: not yet known (National Stage of PCT/DE03/01302)
International Filing Date: 4/17/2003
For: Laser Material Machining Using Hybrid Processes

Commissioner for Patents
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR § 1.56, Applicant wishes to call the attention of the Examiner to the reference(s) cited on the attached form PTO-1449. Copies of the listed documents (except U.S. patents and published U.S. patent applications) are attached.

The references 1) to 6) and 12) have been cited in the International Search Report (copy attached) of the international application of which the instant application is a national stage. References 3) and 4) are the equivalents of the foreign documents WO 010550 and EP 1166948 mentioned in the International Search Report. References 8), 9), 10) and 11) are counterpart U.S. patents of the references mentioned in the instant specification on page 1, lines 20 and 21, and page 2, line 12:

DE 195 00 512 = US 5,821,493
EP 0 800 434 = US 5,859,402
DE 41 15 561 = US 5,196,671 and US 5,179,260.

Reference 11) shows a nozzle arrangement for combination welding by laser beam and electric arc. Fig. 1 shows the general arrangement with laser nozzle 14 and arc 11 generated by electrode 13. The nozzle 14 for generating the laser beam 10 is shown in greater detail in Fig. 6.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted on October 13, 2004

Gudrun E. Huckett

Ms. Gudrun E. Huckett, Ph.D.
Patent Agent, Registration No. 35,747
Lönsstr. 53
42289 Wuppertal
GERMANY
Telephone: 49-202-257-0371
Facsimile: 49-202-257-0372
gudrun.draudt@t-online.de

GEH/Enclosures: PTO 1449 reference(s) search report

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PTO 1449		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	PCT/DE03/01302	
		Filing Date	10/19/2004	
		First Named Inventor	Dirk Petring	
		Group Art Unit		
Date submitted: 10/13/04		Examiner Name		
Sheet 1 of 1		Attorney Docket No.	DE0301302	

U. S. PATENTS OR PUBLISHED PATENT APPLICATIONS							
Examiner Initials	Cite No.	Patent or Publication Number	Issue or Publication Date	Patentee or Inventor	Class	Subclass	Filing Date
	1	4,870,244	9/26/1989	Copley et al.	219	121.7	10/7/1988
	2	5,073,687	12/17/1991	Inagawa et al.	219	121.7	6/21/1990
	3	6,388,227	5/14/2002	Dykhno et al.	219	121.6	7/15/1999
	4	20010050931	12/13/2001	Iso	372	25	6/11/2001
	5	5,006,688	4/19/1991	Cross	219	130.4	10/24/1988
	6	5,298,715	3/29/1994	Chalco et al.	219	121.64	4/27/1992
	7	5,821,493	10/13/1998	Beyer et al.	219	127.46	6/5/1997
	8	5,859,402	1/12/1999	Maier	219	121.64	6/23/1997
	9	5,196,671	3/23/1993	Kroehnert	219	121.63	8/16/1991
	10	5,179,260	1/12/1993	Kroehnert	219	121.63	8/16/1991

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document No.	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	11	196 27 803	10/16/1997	Germany			X

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No.	Name of Author (in CAPITAL LETTERS), Title of Article, Title of Item (Book, Journal, etc.), Date, Page(s), Volume or Issue No., Publisher, City and/or Country Where Published					
	12	TAKEMURA SHIRO, Punching Method of Hole on Composite Material, Publ. Date 2/14/1984, Patent Abstracts of Japan No. 59027791, Published by European Patent Office					

Examiner Signature	Date Considered
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